

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/550, 951
Source: IFUP
Date Processed by STIC: 07/27/2006

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IFWP

RAW SEQUENCE LISTING

DATE: 07/27/2006

PATENT APPLICATION: US/10/550,951

TIME: 12:05:14

Input Set : A:\SAWA3005_Sequence_Listing.ST25.txt
Output Set: N:\CRF4\07272006\J550951.raw

3 <110> APPLICANT: Sawadaishi, Kazuyuki
 5 <120> TITLE OF INVENTION: Recombinant Antibody Recognizing Dioxin and Gene Encoding
 Said
 6 Antibody
 8 <130> FILE REFERENCE: SAWA3005/ESS
 10 <140> CURRENT APPLICATION NUMBER: 10/550,951
 11 <141> CURRENT FILING DATE: 2005-09-28
 12 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/004355
 13 <151> PRIOR FILING DATE: 2004-03-26
 14 <150> PRIOR APPLICATION NUMBER: JP 2003-091663
 15 <151> PRIOR FILING DATE: 2003-03-28
 16 <160> NUMBER OF SEQ ID NOS: 67
 17 <170> SOFTWARE: PatentIn version 3.3
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 342
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Unknown
 22 <220> FEATURE:
 23 <223> OTHER INFORMATION: DNA encoding polypeptide of H-chain variable region of
 monoclonal antibody Dx 3860
 24 <220> FEATURE:
 25 <221> NAME/KEY: exon
 26 <222> LOCATION: (1)..(342)
 27 <400> SEQUENCE: 1
 28 gaa gtg aag ctg gtg gag tct ggg gga ggc tta gtg aag cct gga ggg 48
 29 Glu Val Lys Leu Val Glu Ser Gly Gly Leu Val Lys Pro Gly Gly
 30 5 10 15
 31 tcc ctg aaa ctc tcc tgt gca gcc tct gga ttc act ttc agt tcc tat 96
 32 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 33 20 25 30
 34 gcc atg tct tgg gtt cgc cag act cca gag aag agg ctg gag tgg gtc 144
 35 Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
 36 35 40 45
 37 gca tcc ttt agt aat ggt ggt atc acc tac tat cca gac agt gtg aag 192
 38 Ala Ser Phe Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys
 39 50 55 60
 40 ggc cga ttc acc atc tcc aga gat aat gcc agg aac atc ctg tac ctg 240
 41 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
 42 65 70 75 80
 43 caa atg acc agt ctg agg tct gag gac acg gcc att tat tac tgt gca 288
 44 Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
 45 85 90 95
 46 aqa qqc tat qqt cct qct tac tqq qqc caa qqq act ctq qtc act qtc 336

63 Arg Gly Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val

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64	100	105	110	
66	tct gca			342
67	Ser Ala			
71	<210> SEQ ID NO: 2			
72	<211> LENGTH: 330			
73	<212> TYPE: DNA			
74	<213> ORGANISM: Unknown			
76	<220> FEATURE:			
77	<223> OTHER INFORMATION: DNA encoding polypeptide of L-chain variable region of monoclonal			
78	antibody Dx 3860			
81	<220> FEATURE:			
82	<221> NAME/KEY: exon			
83	<222> LOCATION: (1)..(330)			
85	<400> SEQUENCE: 2			
86	cag gct gtt gtg act cag gaa tct gca ctc acc aca tca cct ggt gaa			48
87	Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu			
88	1 5 10 15			
90	aca gtc aca ctc act tgt cgc tca agt act ggg gct gtt aca act ctt			96
91	Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Leu			
92	20 25 30			
94	aac tat gcc aac tgg gtc caa gaa aaa cca gat cat tta ttc act ggt			144
95	Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly			
96	35 40 45			
98	cta ata ggt aat acc aac aac cga gct cca ggt gtt cct gcc aga ttc			192
99	Leu Ile Gly Asn Thr Asn Arg Ala Pro Gly Val Pro Ala Arg Phe			
100	50 55 60			
102	tca ggc tcc ctg att gga gac aag gct gcc ctc acc atc aca ggg gca			240
103	Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala			
104	65 70 75 80			
106	cag act gag gat gag gca ata tat ttc tgt gct cta tgg tac agc aac			288
107	Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn			
108	85 90 95			
110	cat ttg gtg ttc ggt gga gga acc aaa ctg act gtc cta ggc			330
111	His Leu Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly			
112	100 105 110			
115	<210> SEQ ID NO: 3			
116	<211> LENGTH: 354			
117	<212> TYPE: DNA			
118	<213> ORGANISM: Unknown			
120	<220> FEATURE:			
121	<223> OTHER INFORMATION: DNA encoding polypeptide of H-chain variable region of monoclonal			
122	antibody Dx 3150			
125	<220> FEATURE:			
126	<221> NAME/KEY: exon			
127	<222> LOCATION: (1)..(354)			
129	<400> SEQUENCE: 3			
130	gat gta cag ctt cag gag tca gga cct ggc ctc gtg aaa cct tct cag			48
131	Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln			
132	1 5 10 15			

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134 tct ctg tct ctc acc tgt tct gtc act ggc tac tcc atc acc agt ggc	96
135 Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser Gly	
136 20 25 30	
138 ttt tac tgg aac tgg atc cgg cag ttt cca gga aac aaa ctg gaa tgg	144
139 Phe Tyr Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp	
140 35 40 45	
142 atg ggc tac ata agc tac gac ggt tac aat aat tac aac cca ttt ctc	192
143 Met Gly Tyr Ile Ser Tyr Asp Gly Tyr Asn Asn Tyr Asn Pro Phe Leu	
144 50 55 60	
146 aaa aat cga gtg tcc atc act cgt gac aca tct gag aac cag ttt ttc	240
147 Lys Asn Arg Val Ser Ile Thr Arg Asp Thr Ser Glu Asn Gln Phe Phe	
148 65 70 75 80	
150 ctg aag ttg cat tct gtg act act gag gac aca gct aca tat tac tgt	288
151 Leu Lys Leu His Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys	
152 85 90 95	
154 gta agt tac ggt agt cgg agg gga gtt acc tac tgg ggc caa ggc acc	336
155 Val Ser Tyr Gly Ser Arg Arg Gly Val Thr Tyr Trp Gly Gln Gly Thr	
156 100 105 110	
158 act ctc aca gtc tcc tca	354
159 Thr Leu Thr Val Ser Ser	
160 115	
163 <210> SEQ ID NO: 4	
164 <211> LENGTH: 330	
165 <212> TYPE: DNA	
166 <213> ORGANISM: Unknown	
168 <220> FEATURE:	
169 <223> OTHER INFORMATION: DNA encoding polypeptide of L-chain variable region of monoclonal	
170 antibody Dx 3150	
173 <220> FEATURE:	
174 <221> NAME/KEY: exon	
175 <222> LOCATION: (1)..(330)	
177 <400> SEQUENCE: 4	
178 cag gct gtt gtg act cag gaa tct gca ctc acc aca tca cct ggt gaa	48
179 Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu	
180 1 5 10 15	
182 aca gtc aca ctc act tgt cgc tca agt act ggg gct gtt aca act agt	96
183 Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser	
184 20 25 30	
186 aac tat gcc aac tgg gtc caa gaa aaa cca gat cat tta ttc act ggt	144
187 Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly	
188 35 40 45	
190 cta ata ggt aat acc aac aac cga gct cca ggt gtt cct gcc aga ttc	192
191 Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe	
192 50 55 60	
194 tct ggc tcc ctg att gga gac aag gct gcc ctc acc atc aca ggg gca	240
195 Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala	
196 65 70 75 80	
198 cag act gag gat gag gcg ata tat ttc tgt gct ctt tgg tac aac acc	288
199 Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Asn Thr	

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200 85 90 95
 202 cat ttg gtg ttc ggt gga gga acc aga ctg act gtc cta ggc 330
 203 His Leu Val Phe Gly Gly Thr Arg Leu Thr Val Leu Gly
 204 100 105 110
 207 <210> SEQ ID NO: 5
 208 <211> LENGTH: 114
 209 <212> TYPE: PRT
 210 <213> ORGANISM: Unknown
 212 <220> FEATURE:
 213 <223> OTHER INFORMATION: Polypeptide of H-chain variable region of monoclonal antibody Dx
 214 3860
 216 <400> SEQUENCE: 5
 218 Glu Val Lys Leu Val Glu Ser Gly Gly Leu Val Lys Pro Gly Gly
 219 1 5 10 15
 222 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 223 20 25 30
 226 Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
 227 35 40 45
 230 Ala Ser Phe Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys
 231 50 55 60
 234 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
 235 65 70 75 80
 238 Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
 239 85 90 95
 242 Arg Gly Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 243 100 105 110
 246 Ser Ala
 250 <210> SEQ ID NO: 6
 251 <211> LENGTH: 110
 252 <212> TYPE: PRT
 253 <213> ORGANISM: Unknown
 255 <220> FEATURE:
 256 <223> OTHER INFORMATION: Polypeptide of L-chain variable region of monoclonal antibody Dx
 257 3860
 259 <400> SEQUENCE: 6
 261 Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu
 262 1 5 10 15
 265 Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Leu
 266 20 25 30
 269 Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
 270 35 40 45
 273 Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe
 274 50 55 60
 277 Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
 278 65 70 75 80
 281 Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn
 282 85 90 95
 285 His Leu Val Phe Gly Gly Thr Lys Leu Thr Val Leu Gly
 286 100 105 110

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Input Set : A:\SAWA3005 Sequence Listing.ST25.txt
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289 <210> SEQ ID NO: 7
 290 <211> LENGTH: 118
 291 <212> TYPE: PRT
 292 <213> ORGANISM: Unknown
 294 <220> FEATURE:
 295 <223> OTHER INFORMATION: Polypeptide of H-chain variable region of monoclonal antibody Dx
 296 3150
 298 <400> SEQUENCE: 7
 300 Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 301 1 5 10 15
 304 Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser Gly
 305 20 25 30
 308 Phe Tyr Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp
 309 35 40 45
 312 Met Gly Tyr Ile Ser Tyr Asp Gly Tyr Asn Asn Tyr Asn Pro Phe Leu
 313 50 55 60
 316 Lys Asn Arg Val Ser Ile Thr Arg Asp Thr Ser Glu Asn Gln Phe Phe
 317 65 70 75 80
 320 Leu Lys Leu His Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
 321 85 90 95
 324 Val Ser Tyr Gly Ser Arg Arg Gly Val Thr Tyr Trp Gly Gln Gly Thr
 325 100 105 110
 328 Thr Leu Thr Val Ser Ser
 329 115
 332 <210> SEQ ID NO: 8
 333 <211> LENGTH: 110
 334 <212> TYPE: PRT
 335 <213> ORGANISM: Unknown
 337 <220> FEATURE:
 338 <223> OTHER INFORMATION: Polypeptide of L-chain variable region of monoclonal antibody Dx
 339 3150
 341 <400> SEQUENCE: 8
 343 Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu
 344 1 5 10 15
 347 Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
 348 20 25 30
 351 Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
 352 35 40 45
 355 Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe
 356 50 55 60
 359 Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
 360 65 70 75 80
 363 Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Asn Thr
 364 85 90 95
 367 His Leu Val Phe Gly Gly Thr Arg Leu Thr Val Leu Gly
 368 100 105 110
 371 <210> SEQ ID NO: 9
 372 <211> LENGTH: 8
 373 <212> TYPE: PRT

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/27/2006
PATENT APPLICATION: US/10/550,951 TIME: 12:05:15

Input Set : A:\SAWA3005 Sequence Listing.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:23; N Pos. 30
Seq#:25; N Pos. 24

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42
Seq#:43,44,45,46,47,48,49,50,51,52,53,54,55

VERIFICATION SUMMARY

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Input Set : A:\SAWA3005 Sequence Listing.ST25.txt

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L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0

L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0